

Water-Data Report 2008

12210700 NOOKSACK RIVER AT NORTH CEDARVILLE, WA

Puget Sound Basin Nooksack Subbasin

LOCATION.--Lat 48°50′31″, long 122°17′35″ referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.28, T.39 N., R.4 E., Whatcom County, WA, Hydrologic Unit 17110004, on left bank at Highway 542 bridge at Nugents Corner, and at mile 30.9.

DRAINAGE AREA.--589 mi², includes 5 mi² in Canada.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2002 to September 2004 (gage heights only). October 15 to April 15, 2005 (discharge only). October 2005 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Records fair, except for estimated daily discharges which are poor. U.S. Geological Survey satellite telemeter at station. Gage height record previous to October 1, 2004, needs to have a -0.12 ft correction applied.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft³/s, Nov. 6, 2006, gage height, 149.61 ft; minimum discharge, 478 ft³/s, Oct. 10, 2006, gage height, 139.11 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,500 ft³/s, Dec. 3, gage height, 146.21 ft; minimum discharge, 935 ft³/s, Sept. 29, gage height, 139.84 ft; minimum gage height, 139.83 ft.

12210700 NOOKSACK RIVER AT NORTH CEDARVILLE, WA—Continued

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008 DAILY MEAN VALUES

[e, estimated]

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				[e, estimated]													
2 9,410 1,850 1,850 2,400 1,760 2,800 1,890 2,760 7,260 11,100 3,190 2,510 3 7,880 2,120 15,800 2,550 1,650 2,410 1,850 2,770 6,680 11,100 2,600 2,200 5 4,220 2,720 16,800 3,740 1,630 2,110 1,840 3,790 7,820 7,180 2,470 1,870 6 3,000 2,240 6,190 3,200 1,820 1,940 1,870 4,230 10,300 6,860 2,570 1,870 7 6,170 2,240 4,580 2,750 2,2070 1,870 2,140 2,200 3,950 2,510 2,670 2,140 2,200 3,430 6,750 5,100 2,770 1,660 9 4,010 3,550 3,350 2,510 2,870 2,250 2,080 3,430 6,750 5,460 2,20 1,400	Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
3 7,880 2,120 15,800 2,550 1,650 2,410 1,850 2,770 6,680 1,110 2,660 2,200 5 4,220 2,720 10,800 3,760 1,580 2,320 1,850 3,060 9,340 9,720 2,430 1,990 6 3,000 2,240 6,190 3,200 1,820 1,940 1,870 4,230 10,300 6,600 2,570 1,890 7 6,170 2,220 4,580 2,750 2,070 1,870 2,140 4,380 8,420 5,310 2,570 1,810 8 8,960 2,490 3,730 2,510 2,670 2,140 2,200 3,530 5,100 2,770 1,810 9 4,010 3,250 3,330 2,2510 2,870 2,250 2,000 3,330 8,530 5,160 2,620 1,590 10 3,600 3,500 2,530 4,240 3,600 5,500 <th< th=""><th>1</th><th>9,220</th><th>1,970</th><th>1,820</th><th>2,260</th><th>1,770</th><th>3,650</th><th>1,970</th><th>3,090</th><th>8,030</th><th>12,300</th><th>3,410</th><th>3,010</th></th<>	1	9,220	1,970	1,820	2,260	1,770	3,650	1,970	3,090	8,030	12,300	3,410	3,010				
3 7,880 2,120 15,800 2,550 1,650 2,410 1,850 2,770 6,680 1,100 2,660 2,200 5 4,620 2,720 10,800 3,760 1,580 2,320 1,850 3,060 9,340 9,720 2,430 1,990 6 3,000 2,240 6,190 3,200 1,820 1,940 1,870 4,230 10,300 6,660 2,570 1,890 7 6,170 2,220 4,580 2,750 2,070 1,870 2,140 4,380 8,420 5,310 2,570 1,810 8 8,660 2,490 3,730 2,520 2,670 2,140 2,200 3,530 5,100 2,770 1,810 9 4,010 3,250 3,330 2,2510 2,870 2,250 2,000 3,330 8,530 5,160 2,620 1,590 10 3,670 3,520 2,530 4,230 3,080 3,260 <th< th=""><th>2</th><td>9,410</td><td>1,850</td><td>1,850</td><td>2,400</td><td>1,760</td><td>2,800</td><td>1,890</td><td>2,760</td><td>7,260</td><td>11,100</td><td>3,190</td><td>2,510</td></th<>	2	9,410	1,850	1,850	2,400	1,760	2,800	1,890	2,760	7,260	11,100	3,190	2,510				
5 4,220 2,720 10,800 3,740 1,630 2,110 1,840 3,790 7,820 7,180 2,470 1,870 6 3,000 2,240 6,190 3,200 1,820 1,940 1,870 4,230 10,300 6,660 2,570 1,890 7 6,170 2,220 4,580 2,750 2,070 1,870 2,140 4,380 8,420 3,310 2,750 1,810 8 8,960 2,490 3,770 2,510 2,670 2,140 2,200 3,950 5,560 2,620 1,990 10 3,610 4,520 3,030 2,2510 2,870 2,550 2,000 3,330 8,530 5,160 2,620 1,990 11 3,760 3,530 2,630 4,100 3,050 5,270 1,960 4,210 6,950 4,170 2,700 1,400 12 2,790 3,350 2,530 3,800 3,330 3,100 <t< th=""><th>3</th><th>7,880</th><th>2,120</th><th>15,800</th><th></th><th>1,650</th><th>2,410</th><th>1,850</th><th>2,770</th><th>6,680</th><th>11,100</th><th>2,660</th><th></th></t<>	3	7,880	2,120	15,800		1,650	2,410	1,850	2,770	6,680	11,100	2,660					
6 3,000 2,240 6,190 3,200 1,820 1,940 1,870 4,230 10,300 6,860 2,570 1,890 7 6,170 2,220 4,580 2,750 2,070 1,870 2,140 4,380 8,420 5,310 2,750 1,810 8 8,960 2,490 3,770 2,510 2,670 2,140 2,200 3,950 7,255 5,100 2,770 1,660 9 4,010 3,250 3,330 2,510 2,870 2,250 2,080 3,430 6,750 5,460 2,620 1,590 10 3,610 4,520 3,030 2,920 3,540 2,550 2,000 3,330 8,530 5,160 4,030 1,460 11 3,760 3,500 2,780 4,460 3,630 5,270 1,960 4,210 6,950 4,170 2,700 1,400 12 2,790 3,350 2,630 4,100 3,050 4,250 2,010 3,760 6,500 3,980 2,230 1,440 13 2,290 3,880 2,530 4,230 3,080 3,330 3,110 3,390 7,480 4,220 2,150 1,360 14 2,000 2,980 2,550 3,980 2,510 3,020 3,300 4,930 8,280 4,200 2,260 1,270 15 1,910 3,570 2,900 4,160 2,170 2,860 2,910 7,060 7,170 3,760 2,620 1,280 16 2,210 14,400 2,890 3,340 2,110 2,690 2,480 16,300 6,700 3,350 2,880 1,380 18 2,140 5,660 2,860 2,650 1,860 2,620 2,420 13,400 6,777 3,480 2,888 1,300 18 2,140 5,660 2,860 2,860 2,650 1,860 2,400 2,480 16,300 6,700 3,370 2,870 e1,380 19 7,430 4,290 3,590 2,550 1,880 2,370 1,870 2,410 2,190 18,700 6,540 3,150 2,770 e1,390 20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,700 6,340 3,150 2,770 e1,390 21 3,640 3,140 2,970 2,190 1,890 2,350 13,400 6,240 3,150 2,770 e1,390 22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,920 8,780 3,190 6,410 e1,560 23 3,640 3,140 2,970 2,190 1,890 2,350 1,900 11,900 8,570 2,903 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,780 1,950 7,480 6,790 2,640 3,330 1,150 25 5,540 2,230 3,200 1,850 1,780 2,410 2,190 18,700 6,280 2,810 3,980 1,410 27 3,210 2,380 2,750 1,810 1,810 1,760 2,350 1,900 11,000 8,570 2,290 3,080 1,410 28 2,820 2,140 2,820 1,730 1,870 2,160 2,890 11,000 8,570 2,290 3,350 1,400 29 2,590 2,030 2,790 1,700 2,200 2,140 4,630 10,600 11,700 2,520 5,460 1,000 30 2,340 1,890 2,610 1,890 2,154 2,604 8,030 10,800 6,230 2,810 3,980 1,170 28 2,820 2,140 2,820 1,730 1,870 2,160 2,890 11,000 8,570 2,290 3,300 1,410 29 2,590 2,030 2,790 1,700 2,200 2,154 2,604 8,030 10,800 6,230 2,350 3,930 2 10tal 143,570 104,060 136,910 83.88 62,460 80,730 70	4	6,260	3,720	23,700	3,260	1,580	2,320	1,850	3,060	9,340	9,720	2,430	1,990				
8 8,960 2,490 3,770 2,510 2,670 1,870 2,140 4,380 8,420 5,310 2,750 1,810 9 4,010 3,250 3,320 2,510 2,670 2,140 2,200 3,950 7,250 5,100 2,770 1,660 10 3,610 4,520 3,030 2,920 3,540 2,550 2,000 3,330 8,530 5,160 4,030 1,460 11 3,760 3,500 2,780 4,460 3,630 5,270 1,960 4,210 6,950 4,170 2,700 1,400 12 2,790 3,350 2,630 4,100 3,050 4,250 2,010 3,760 6,500 3,980 2,230 1,440 13 2,290 3,880 2,530 4,230 3,080 3,330 3,110 3,390 7,480 4,220 2,150 1,360 14 2,000 2,980 2,550 3,980 2,510 3,020 3,330 3,110 3,390 8,280 4,200 2,260 1,270 15 1,910 3,570 2,900 4,160 2,170 2,860 2,910 7,060 7,170 3,760 2,620 1,280 16 2,210 14,400 2,890 3,340 2,110 2,690 2,580 9,300 7,490 3,560 2,620 1,280 17 2,190 7,950 2,910 2,920 1,960 2,620 2,420 13,400 7,770 3,480 2,880 1,300 18 2,140 5,660 2,860 2,650 1,860 2,620 2,420 13,400 6,240 3,150 2,770 e1,380 19 7,430 4,290 3,590 2,550 1,830 2,420 2,350 13,400 6,240 3,150 2,770 e1,380 20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,700 6,340 3,150 2,770 e1,380 21 3,640 3,140 2,970 2,190 1,890 2,350 2,480 1,900 8,340 3,130 1,600 e1,480 22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,920 8,780 3,190 6,410 e1,300 22 8,590 2,830 2,900 2,070 1,890 2,350 1,900 11,600 6,580 2,910 3,980 1,150 23 7,770 2,590 3,260 1,990 1,890 2,350 1,900 11,600 6,580 2,910 3,980 1,150 25 5,540 2,230 3,200 1,850 1,780 2,410 2,020 9,760 6,480 2,810 3,390 1,160 26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,980 1,170 28 2,820 2,140 2,230 3,200 1,850 1,780 2,410 2,020 9,760 6,480 2,810 3,980 1,170 28 2,820 2,140 2,230 3,200 1,850 1,780 2,410 2,020 9,770 2,800 3,400 7,300 1,600 29 2,590 2,030 2,790 1,700 1,890 2,750 1,900 11,600 6,580 2,910 3,980 1,170 28 2,820 2,140 2,230 3,200 1,850 1,780 2,410 2,020 9,760 1,000 8,570 2,570 4,000 1,060 30 2,340 1,890 2,610 1,690 1,580 1,780 2,410 2,020 9,760 6,480 2,810 3,630 1,300 1,600 30 2,340 1,890 2,610 1,690 1,580 1,780 1,800 2,660 2,300 12,800 12,300 13,600 4,050 3,100 Man 4,641 1,4400 23,700 4,460 3,630 5,270 4,630 18,700 12,800 2,350 2,350 91	5	4,220		10,800				1,840		7,820	7,180						
8 8,960 2,490 3,770 2,510 2,670 2,140 2,200 3,950 7,250 5,100 2,770 1,660 9 4,010 3,250 3,320 2,510 2,870 2,250 2,080 3,430 6,750 5,460 2,620 1,590 11 3,610 4,520 3,030 2,920 3,540 2,550 2,000 3,330 5,100 4,030 1,460 12 2,790 3,350 2,630 4,100 3,650 5,270 1,960 4,210 6,950 4,170 2,700 1,400 13 2,290 3,880 2,530 4,230 3,080 3,330 3,110 3,390 7,480 4,220 2,150 1,360 14 2,000 2,980 2,550 3,880 2,510 3,300 3,330 3,910 7,490 3,560 2,620 1,270 15 1,910 3,570 2,910 2,920 1,600 2,620	6	3,000	2,240	6,190	3,200	1,820	1,940	1,870	4,230	10,300	6,860	2,570	1,890				
9 4,010 3,250 3,320 2,510 2,870 2,250 2,080 3,430 6,750 5,460 2,620 1,590 10 3,610 4,520 3,030 2,920 3,540 2,550 2,000 3,330 8,530 5,160 4,030 1,460 11 3,760 3,500 2,780 4,460 3,630 5,270 1,960 4,210 6,950 4,170 2,700 1,400 12 2,790 3,350 2,630 4,100 3,080 3,330 3,110 3,390 7,480 4,220 2,150 1,360 14 2,000 2,980 2,550 3,980 2,510 3,020 3,300 4,930 8,280 4,200 2,250 1,360 15 1,910 3,570 2,900 4,160 2,170 2,860 2,910 7,060 7,170 3,560 2,600 1,280 16 2,210 14,400 2,890 3,340 2,110 <t< th=""><th>7</th><th>6,170</th><th>2,220</th><th>4,580</th><th>2,750</th><th>2,070</th><th>1,870</th><th>2,140</th><th>4,380</th><th>8,420</th><th>5,310</th><th>2,750</th><th>1,810</th></t<>	7	6,170	2,220	4,580	2,750	2,070	1,870	2,140	4,380	8,420	5,310	2,750	1,810				
10 3,610 4,520 3,030 2,920 3,540 2,550 2,000 3,330 8,530 5,160 4,030 1,460 11 3,760 3,500 2,780 4,460 3,630 5,270 1,960 4,210 6,950 4,170 2,700 1,400 12 2,790 3,350 2,630 4,100 3,050 4,250 2,010 3,760 6,500 3,980 2,230 1,440 13 2,290 3,880 2,530 4,230 3,080 3,330 3,110 3,390 7,480 4,220 2,150 1,360 14 2,000 2,980 2,550 3,980 2,510 3,020 3,300 4,930 8,280 4,200 2,260 1,270 15 1,910 3,570 2,900 4,160 2,170 2,860 2,910 7,060 7,170 3,760 2,620 1,280 16 2,210 14,400 2,890 3,340 2,110 2,690 2,580 9,300 7,490 3,560 2,700 1,290 17 2,190 7,950 2,910 2,920 1,960 2,620 2,420 13,400 7,770 3,480 2,880 1,300 18 2,140 5,660 2,860 2,650 1,860 2,600 2,480 16,300 6,240 3,150 2,770 e1,380 19 7,430 4,290 3,590 2,550 1,830 2,410 2,190 18,700 6,340 3,080 4,210 e1,390 20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,700 6,340 3,080 4,210 e1,390 21 3,640 3,140 2,970 2,190 1,890 2,350 2,060 13,900 8,340 3,130 16,600 e1,480 22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,920 8,780 3,190 6,410 e1,560 23 7,770 2,590 3,260 1,990 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 25 5,540 2,230 3,200 1,850 1,780 2,410 2,020 9,970 6,480 2,810 4,630 1,360 26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,170 28 2,820 2,140 2,820 1,730 1,870 2,410 2,020 9,970 6,480 2,810 4,630 1,360 26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,170 28 2,820 2,140 2,820 1,730 1,970 2,100 2,290 1,1000 8,570 2,720 4,000 1,060 29 2,590 2,030 2,790 1,700 2,200 2,140 4,630 10,600 11,700 2,520 5,460 1,000 30 2,340 1,890 2,610 1,690 1,890 1,870 7,010 236,550 235,270 147,950 118,600 3,010 Min 1,910 1,850 1,820 1,690 1,580 1,870 1,870 1,840 2,760 6,230 2,520 2,510 1,000 Min 1,910 1,850 1,850 1,690 1,580 1,870 1,870 1,800 469,200 466,700 293,500 235,200 91,340 Clsm 7,86 5.89 7,50 4.457 3,666 4.42 3,97 110 10,01 13,000 436,000 235,500 235,200 91,340	8	8,960	2,490	3,770	2,510	2,670	2,140	2,200	3,950	7,250	5,100	2,770	1,660				
11 3,760 3,500 2,780 4,460 3,630 5,270 1,960 4,210 6,950 4,170 2,700 1,400 12 2,790 3,350 2,630 4,100 3,050 4,250 2,010 3,760 6,500 3,980 2,230 1,440 13 2,290 3,880 2,530 4,230 3,080 3,330 3,110 3,390 7,480 4,220 2,150 1,360 14 2,000 2,980 2,550 3,980 2,510 3,020 3,300 4,930 8,280 4,200 2,260 1,270 15 1,910 3,570 2,900 4,160 2,170 2,860 2,910 7,060 7,170 3,760 2,620 1,280 16 2,210 14,400 2,890 3,340 2,110 2,690 2,580 9,300 7,490 3,560 2,700 1,290 17 2,190 7,950 2,910 2,920 1,960 2,620 2,420 13,400 7,770 3,480 2,880 1,300 18 2,140 5,660 2,860 2,650 1,860 2,660 2,480 16,300 6,700 3,370 2,870 e1,380 19 7,430 4,290 3,590 2,550 1,830 2,420 2,350 13,400 6,700 3,370 2,870 e1,380 20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,700 6,340 3,080 4,210 e1,360 21 3,640 3,140 2,970 2,190 1,890 2,350 2,060 13,900 8,340 3,130 16,600 e1,480 22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,920 8,780 3,190 6,410 e1,560 23 7,770 2,590 3,260 1,990 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 25 5,540 2,230 3,200 1,850 1,780 2,410 2,020 9,970 6,480 2,810 4,630 1,360 26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,110 27 3,210 2,380 2,750 1,810 1,810 2,260 2,030 10,800 6,230 2,810 3,980 1,170 28 2,820 2,140 2,820 1,730 1,730 2,160 2,890 11,000 8,570 2,720 4,000 1,060 29 2,590 2,030 2,790 1,700 2,200 2,140 4,630 10,600 11,700 2,520 5,460 1,000 30 2,340 1,890 2,610 1,690 2,090 3,750 8,320 12,800 3,460 7,330 1,020 31 2,120 2,430 1,750 2,040 7,440 2,570 3,930 Total 143,570 104,060 136,910 83,380 62,460 80,730 70,100 236,550 235,270 147,950 118,600 46,050 Mean 4,631 3,469 4,416 2,690 2,154 2,604 2,337 7,631 7,842 4,773 3,826 1,535 Max 9,410 14,400 23,700 4,460 3,630 5,270 4,630 18,700 12,800 12,300 16,600 3,010 Min 1,910 1,850 1,820 1,690 1,58	9	4,010	3,250	3,320	2,510	2,870	2,250	2,080	3,430	6,750	5,460	2,620	1,590				
12 2,790 3,350 2,630 4,100 3,050 4,250 2,010 3,760 6,500 3,980 2,230 1,440 13 2,290 3,880 2,530 4,230 3,080 3,330 3,110 3,390 7,480 4,220 2,150 1,360 14 2,000 2,980 2,550 3,980 2,510 3,020 3,300 4,930 8,280 4,200 2,260 1,270 15 1,910 3,570 2,900 4,160 2,170 2,860 2,910 7,060 7,170 3,760 2,620 1,280 16 2,210 14,400 2,890 3,340 2,110 2,690 2,580 9,300 7,490 3,560 2,700 1,290 17 2,190 7,950 2,910 2,920 1,960 2,620 2,420 13,400 7,770 3,480 2,880 1,300 18 2,140 5,660 2,860 2,550 1,830	10	3,610	4,520	3,030	2,920	3,540	2,550	2,000	3,330	8,530	5,160	4,030	1,460				
13 2,290 3,880 2,530 4,230 3,080 3,330 3,110 3,390 7,480 4,220 2,150 1,360 14 2,000 2,980 2,550 3,980 2,510 3,020 3,300 4,930 8,280 4,200 2,260 1,270 15 1,910 3,570 2,900 4,160 2,170 2,860 2,910 7,060 7,170 3,760 2,620 1,280 16 2,210 14,400 2,890 3,340 2,110 2,690 2,580 9,300 7,490 3,560 2,700 1,290 17 2,190 7,950 2,910 2,920 1,960 2,620 2,480 16,300 6,700 3,370 2,880 1,380 18 2,140 5,660 2,860 2,650 1,880 2,420 2,350 13,400 6,700 3,130 2,870 2,180 21 3,640 3,140 2,970 2,190 1,890		3,760	3,500	2,780	4,460	3,630	5,270	1,960	4,210	6,950	4,170	2,700	1,400				
14 2,000 2,980 2,550 3,980 2,510 3,020 3,300 4,930 8,280 4,200 2,260 1,270 15 1,910 3,570 2,900 4,160 2,170 2,860 2,910 7,060 7,170 3,760 2,620 1,280 16 2,210 14,400 2,890 3,340 2,110 2,690 2,580 9,300 7,490 3,560 2,700 1,290 17 2,190 7,950 2,910 2,920 1,960 2,600 2,480 16,300 6,700 3,370 2,870 1,380 18 2,140 5,660 2,860 2,650 1,860 2,600 2,480 16,300 6,700 3,370 2,870 2,1380 19 7,430 4,290 3,590 2,550 1,830 2,420 2,350 13,400 6,240 3,130 2,470 2,130 20 5,130 3,140 2,970 2,190 1,890	12	2,790	3,350	2,630	4,100	3,050	4,250	2,010	3,760	6,500	3,980	2,230	1,440				
15 1,910 3,570 2,900 4,160 2,170 2,860 2,910 7,060 7,170 3,760 2,620 1,280 16 2,210 14,400 2,890 3,340 2,110 2,690 2,580 9,300 7,490 3,560 2,700 1,290 17 2,190 7,950 2,910 2,920 1,960 2,620 2,420 13,400 7,770 3,480 2,880 1,300 18 2,140 5,660 2,860 2,650 1,860 2,600 2,480 16,300 6,700 3,370 2,870 e1,380 20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,400 6,240 3,130 16,600 e1,390 21 3,640 3,140 2,970 2,190 1,890 2,350 2,900 8,340 3,130 16,600 e1,390 22 8,590 2,830 2,900 2,070 1,890 2,430	13	2,290	3,880	2,530	4,230	3,080	3,330	3,110	3,390	7,480	4,220	2,150	1,360				
16 2,210 14,400 2,890 3,340 2,110 2,690 2,580 9,300 7,490 3,560 2,700 1,290 17 2,190 7,950 2,910 2,920 1,960 2,620 2,420 13,400 7,770 3,480 2,880 1,300 18 2,140 5,660 2,860 2,650 1,860 2,600 2,480 16,300 6,700 3,370 2,870 e1,380 19 7,430 4,290 3,590 2,550 1,830 2,420 2,350 13,400 6,240 3,150 2,770 e1,380 20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,700 6,340 3,080 4,210 e1,390 21 3,640 3,140 2,970 2,190 1,890 2,350 2,060 13,900 8,340 3,130 16,600 e1,480 22 8,590 2,830 2,900 2,070 1,890	14	2,000	2,980	2,550	3,980	2,510	3,020	3,300	4,930	8,280	4,200	2,260	1,270				
17 2,190 7,950 2,910 2,920 1,960 2,620 2,420 13,400 7,770 3,480 2,880 1,300 18 2,140 5,660 2,860 2,650 1,860 2,600 2,480 16,300 6,700 3,370 2,870 e1,380 19 7,430 4,290 3,590 2,5550 1,830 2,420 2,350 13,400 6,240 3,150 2,770 e1,390 20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,700 6,340 3,080 4,210 e1,390 21 3,640 3,140 2,970 2,190 1,890 2,350 2,060 13,900 8,340 3,130 16,600 e1,480 22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,20 8,780 3,190 6,410 e1,560 23 7,770 2,590 3,260 1,990 1,890	15	1,910	3,570	2,900	4,160	2,170	2,860	2,910	7,060	7,170	3,760	2,620	1,280				
18 2,140 5,660 2,860 2,650 1,860 2,600 2,480 16,300 6,700 3,370 2,870 e1,380 19 7,430 4,290 3,590 2,550 1,830 2,420 2,350 13,400 6,240 3,150 2,770 e1,390 20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,700 6,340 3,080 4,210 e1,300 21 3,640 3,140 2,970 2,190 1,890 2,350 2,060 13,900 8,340 3,130 16,600 e1,480 22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,920 8,780 3,190 6,410 e1,560 23 7,770 2,590 3,260 1,990 1,890 2,430 1,950 7,480 6,790 2,640 3,330 1,150 24 6,460 2,390 4,070 1,930 1,880		2,210	14,400	2,890	3,340	2,110	2,690	2,580	9,300	7,490	3,560	2,700	1,290				
19 7,430 4,290 3,590 2,550 1,830 2,420 2,350 13,400 6,240 3,150 2,770 e1,390 20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,700 6,340 3,080 4,210 e1,300 21 3,640 3,140 2,970 2,190 1,890 2,350 2,060 13,900 8,340 3,130 16,600 e1,480 22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,920 8,780 3,190 6,410 e1,560 23 7,770 2,590 3,260 1,990 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,780 1,950 7,480 6,790 2,640 3,330 1,150 25 5,540 2,230 3,000 1,810 1,760		2,190	7,950	2,910	2,920	1,960	2,620	2,420	13,400	7,770	3,480	2,880	1,300				
20 5,130 3,580 3,610 2,370 1,870 2,410 2,190 18,700 6,340 3,080 4,210 e1,300 21 3,640 3,140 2,970 2,190 1,890 2,350 2,060 13,900 8,340 3,130 16,600 e1,480 22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,920 8,780 3,190 6,410 e1,560 23 7,770 2,590 3,260 1,990 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,780 1,950 7,480 6,790 2,640 3,330 1,150 25 5,540 2,230 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,410 27 3,210 2,380 2,750 1,810 1,810		2,140	5,660	2,860	2,650	1,860	2,600	2,480	16,300	6,700	3,370	2,870	e1,380				
21 3,640 3,140 2,970 2,190 1,890 2,350 2,060 13,900 8,340 3,130 16,600 e1,480 22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,920 8,780 3,190 6,410 e1,560 23 7,770 2,590 3,260 1,990 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,780 1,950 7,480 6,790 2,640 3,330 1,150 25 5,540 2,230 3,200 1,850 1,780 2,410 2,020 9,970 6,480 2,810 4,630 1,360 26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,410 27 3,210 2,380 2,750 1,810 1,810 2,260 2,030 10,800 6,230 2,810 3,980 1,170 28 2,820 2,140 2,820 1,730 1,970 2,160 2,890 11,000 8,570 2,720 4,000 1,060 29 2,590 2,030 2,790 1,700 2,200 2,140 4,630 10,600 11,700 2,520 5,460 1,000 30 2,340 1,890 2,610 1,690 2,090 3,750 8,320 12,800 3,460 7,330 1,020 31 2,120 2,430 1,750 2,040 7,440 2,570 3,930 Total 143,570 104,060 136,910 83,380 62,460 80,730 70,100 236,550 235,270 147,950 118,600 46,050 Mean 4,631 3,469 4,416 2,690 2,154 2,604 2,337 7,631 7,842 4,773 3,826 1,535 Max 9,410 14,400 23,700 4,460 3,630 5,270 4,630 18,700 12,800 12,300 16,600 3,010 Min 1,910 1,850 1,820 1,690 1,580 1,870 1,840 2,760 6,230 2,520 2,150 1,000 Ac-ft 284,800 206,400 271,600 165,400 123,900 160,100 139,000 469,200 466,700 293,500 235,200 91,340 Cfsm 7.86 5.89 7.50 4.57 3.66 4.42 3.97 13.0 13.3 8.10 6.50 2.61		7,430	4,290	3,590	2,550	1,830	2,420	2,350	13,400	6,240	3,150	2,770	e1,390				
22 8,590 2,830 2,900 2,070 1,840 2,210 1,950 8,920 8,780 3,190 6,410 e1,560 23 7,770 2,590 3,260 1,990 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,780 1,950 7,480 6,790 2,640 3,330 1,150 25 5,540 2,230 3,200 1,850 1,780 2,410 2,020 9,970 6,480 2,810 4,630 1,360 26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,410 27 3,210 2,380 2,750 1,810 1,810 2,260 2,030 10,800 6,230 2,810 3,980 1,170 28 2,820 2,140 2,820 1,730 1,970 2,160 2,890 11,000 8,570 2,720 4,000 1,060 <tr< th=""><th>20</th><td>5,130</td><td>3,580</td><td>3,610</td><td>2,370</td><td>1,870</td><td>2,410</td><td>2,190</td><td>18,700</td><td>6,340</td><td>3,080</td><td>4,210</td><td>e1,300</td></tr<>	20	5,130	3,580	3,610	2,370	1,870	2,410	2,190	18,700	6,340	3,080	4,210	e1,300				
23 7,770 2,590 3,260 1,990 1,890 2,430 1,920 7,280 7,700 2,930 3,560 1,440 24 6,460 2,390 4,070 1,930 1,890 2,780 1,950 7,480 6,790 2,640 3,330 1,150 25 5,540 2,230 3,200 1,850 1,780 2,410 2,020 9,970 6,480 2,810 4,630 1,360 26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,410 27 3,210 2,380 2,750 1,810 1,810 2,260 2,030 10,800 6,230 2,810 3,980 1,170 28 2,820 2,140 2,820 1,730 1,970 2,160 2,890 11,000 8,570 2,720 4,000 1,060 29 2,590 2,030 2,790 1,700 2,200		3,640			,	1,890					3,130	16,600					
24 6,460 2,390 4,070 1,930 1,890 2,780 1,950 7,480 6,790 2,640 3,330 1,150 25 5,540 2,230 3,200 1,850 1,780 2,410 2,020 9,970 6,480 2,810 4,630 1,360 26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,410 27 3,210 2,380 2,750 1,810 1,810 2,260 2,030 10,800 6,230 2,810 3,980 1,170 28 2,820 2,140 2,820 1,730 1,970 2,160 2,890 11,000 8,570 2,720 4,000 1,060 29 2,590 2,030 2,790 1,700 2,200 2,140 4,630 10,600 11,700 2,520 5,460 1,000 30 2,340 1,890 2,610 1,690																	
25 5,540 2,230 3,200 1,850 1,780 2,410 2,020 9,970 6,480 2,810 4,630 1,360 26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,410 27 3,210 2,380 2,750 1,810 1,810 2,260 2,030 10,800 6,230 2,810 3,980 1,170 28 2,820 2,140 2,820 1,730 1,970 2,160 2,890 11,000 8,570 2,720 4,000 1,060 29 2,590 2,030 2,790 1,700 2,200 2,140 4,630 10,600 11,700 2,520 5,460 1,000 30 2,340 1,890 2,610 1,690 2,090 3,750 8,320 12,800 3,460 7,330 1,020 31 2,120 2,430 1,750																	
26 3,900 2,180 3,000 1,810 1,760 2,350 1,900 11,600 6,580 2,910 3,080 1,410 27 3,210 2,380 2,750 1,810 1,810 2,260 2,030 10,800 6,230 2,810 3,980 1,170 28 2,820 2,140 2,820 1,730 1,970 2,160 2,890 11,000 8,570 2,720 4,000 1,060 29 2,590 2,030 2,790 1,700 2,200 2,140 4,630 10,600 11,700 2,520 5,460 1,000 30 2,340 1,890 2,610 1,690 2,090 3,750 8,320 12,800 3,460 7,330 1,020 31 2,120 2,430 1,750 2,040 7,440 2,570 3,930 Total 143,570 104,060 136,910 83,380 62,460 80,730 70,100 236,550 235,270 147,950 118,600 46,050 <			2,390	4,070	1,930	1,890	2,780	1,950		6,790	2,640	3,330	1,150				
27 3,210 2,380 2,750 1,810 1,810 2,260 2,030 10,800 6,230 2,810 3,980 1,170 28 2,820 2,140 2,820 1,730 1,970 2,160 2,890 11,000 8,570 2,720 4,000 1,060 29 2,590 2,030 2,790 1,700 2,200 2,140 4,630 10,600 11,700 2,520 5,460 1,000 30 2,340 1,890 2,610 1,690 2,090 3,750 8,320 12,800 3,460 7,330 1,020 31 2,120 2,430 1,750 2,040 7,440 2,570 3,930 Total 143,570 104,060 136,910 83,380 62,460 80,730 70,100 236,550 235,270 147,950 118,600 46,050 Mean 4,631 3,469 4,416 2,690 2,154 2,604 2,337 7,631 7,842 4,773 3,826 1,535	25	5,540	2,230	3,200	1,850	1,780	2,410	2,020	9,970	6,480	2,810	4,630	1,360				
28 2,820 2,140 2,820 1,730 1,970 2,160 2,890 11,000 8,570 2,720 4,000 1,060 29 2,590 2,030 2,790 1,700 2,200 2,140 4,630 10,600 11,700 2,520 5,460 1,000 30 2,340 1,890 2,610 1,690 2,090 3,750 8,320 12,800 3,460 7,330 1,020 31 2,120 2,430 1,750 2,040 7,440 2,570 3,930 Total 143,570 104,060 136,910 83,380 62,460 80,730 70,100 236,550 235,270 147,950 118,600 46,050 Mean 4,631 3,469 4,416 2,690 2,154 2,604 2,337 7,631 7,842 4,773 3,826 1,535 Max 9,410 14,400 23,700 4,460 3,																	
29		3,210	2,380	2,750	1,810	1,810	2,260	2,030	10,800	6,230	2,810	3,980	1,170				
30 2,340 1,890 2,610 1,690 2,090 3,750 8,320 12,800 3,460 7,330 1,020 31 2,120 2,430 1,750 2,040 7,440 2,570 3,930 Total 143,570 104,060 136,910 83,380 62,460 80,730 70,100 236,550 235,270 147,950 118,600 46,050 Mean 4,631 3,469 4,416 2,690 2,154 2,604 2,337 7,631 7,842 4,773 3,826 1,535 Max 9,410 14,400 23,700 4,460 3,630 5,270 4,630 18,700 12,800 12,300 16,600 3,010 Min 1,910 1,850 1,820 1,690 1,580 1,870 1,840 2,760 6,230 2,520 2,150 1,000 Ac-ft 284,800 206,400 271,600 165,400 123,900 160,100 139,000 469,200 466,700 293,500 235,200 </th <th></th> <th>2,820</th> <th>2,140</th> <th>2,820</th> <th>1,730</th> <th>1,970</th> <th>2,160</th> <th>2,890</th> <th>11,000</th> <th>8,570</th> <th>2,720</th> <th>4,000</th> <th>1,060</th>		2,820	2,140	2,820	1,730	1,970	2,160	2,890	11,000	8,570	2,720	4,000	1,060				
31 2,120 2,430 1,750 2,040 7,440 2,570 3,930 Total 143,570 104,060 136,910 83,380 62,460 80,730 70,100 236,550 235,270 147,950 118,600 46,050 Mean 4,631 3,469 4,416 2,690 2,154 2,604 2,337 7,631 7,842 4,773 3,826 1,535 Max 9,410 14,400 23,700 4,460 3,630 5,270 4,630 18,700 12,800 12,300 16,600 3,010 Min 1,910 1,850 1,820 1,690 1,580 1,870 1,840 2,760 6,230 2,520 2,150 1,000 Ac-ft 284,800 206,400 271,600 165,400 123,900 160,100 139,000 469,200 466,700 293,500 235,200 91,340 Cfsm 7.86 5.89 7.50 4.57 3.66 4.42 3.97 13.0 13.3 8.10 6.50		2,590				2,200		4,630	10,600		2,520	5,460	1,000				
Total 143,570 104,060 136,910 83,380 62,460 80,730 70,100 236,550 235,270 147,950 118,600 46,050 Mean 4,631 3,469 4,416 2,690 2,154 2,604 2,337 7,631 7,842 4,773 3,826 1,535 Max 9,410 14,400 23,700 4,460 3,630 5,270 4,630 18,700 12,800 12,300 16,600 3,010 Min 1,910 1,850 1,820 1,690 1,580 1,870 1,840 2,760 6,230 2,520 2,150 1,000 Ac-ft 284,800 206,400 271,600 165,400 123,900 160,100 139,000 469,200 466,700 293,500 235,200 91,340 Cfsm 7.86 5.89 7.50 4.57 3.66 4.42 3.97 13.0 13.3 8.10 6.50 2.61		2,340	1,890	2,610	1,690		2,090	3,750	8,320	12,800	3,460	7,330	1,020				
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	31	2,120		2,430	1,750		2,040		7,440		2,570	3,930					
Max 9,410 14,400 23,700 4,460 3,630 5,270 4,630 18,700 12,800 12,300 16,600 3,010 Min 1,910 1,850 1,820 1,690 1,580 1,870 1,840 2,760 6,230 2,520 2,150 1,000 Ac-ft 284,800 206,400 271,600 165,400 123,900 160,100 139,000 469,200 466,700 293,500 235,200 91,340 Cfsm 7.86 5.89 7.50 4.57 3.66 4.42 3.97 13.0 13.3 8.10 6.50 2.61	Total																
Min 1,910 1,850 1,820 1,690 1,580 1,870 1,840 2,760 6,230 2,520 2,150 1,000 Ac-ft 284,800 206,400 271,600 165,400 123,900 160,100 139,000 469,200 466,700 293,500 235,200 91,340 Cfsm 7.86 5.89 7.50 4.57 3.66 4.42 3.97 13.0 13.3 8.10 6.50 2.61	Mean	4,631	3,469	4,416	2,690	2,154	2,604	2,337	7,631	7,842	4,773	3,826	1,535				
Ac-ft 284,800 206,400 271,600 165,400 123,900 160,100 139,000 469,200 466,700 293,500 235,200 91,340 Cfsm 7.86 5.89 7.50 4.57 3.66 4.42 3.97 13.0 13.3 8.10 6.50 2.61	Max	9,410	14,400	23,700	4,460	3,630	5,270	4,630	18,700	12,800	12,300	16,600	3,010				
Ac-ft 284,800 206,400 271,600 165,400 123,900 160,100 139,000 469,200 466,700 293,500 235,200 91,340 Cfsm 7.86 5.89 7.50 4.57 3.66 4.42 3.97 13.0 13.3 8.10 6.50 2.61	Min	1,910	1,850	1,820	1,690	1,580	1,870	1,840	2,760	6,230	2,520	2,150	1,000				
	Ac-ft	284,800	206,400	271,600	165,400	123,900	160,100	139,000	469,200	466,700	293,500	235,200	91,340				
	Cfsm	7.86	5.89	7.50	4.57	3.66	4.42	3.97	13.0	13.3	8.10	6.50	2.61				
	ln.	9.07	6.57	8.65	5.27	3.94	5.10	4.43	14.94	14.86	9.34	7.49	2.91				

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2008, BY WATER YEAR (WY)

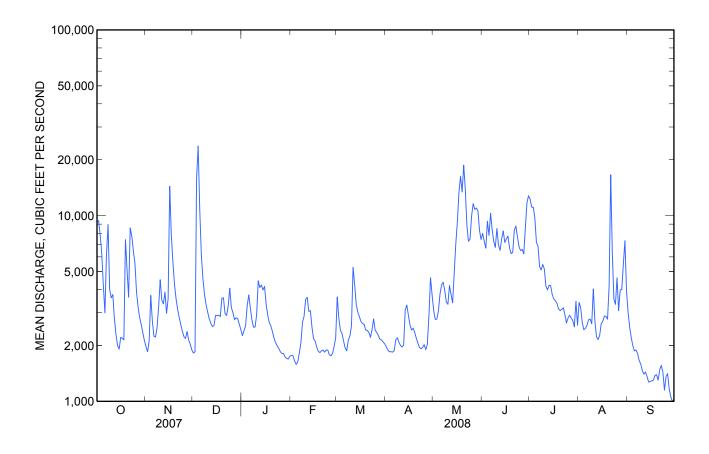
	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,945	5,538	4,896	4,997	2,803	3,467	3,191	5,600	5,947	3,969	2,312	1,298
Max	4,631	7,743	5,703	7,642	3,730	7,056	4,133	7,631	7,842	4,773	3,826	1,535
(WY)	(2008)	(2007)	(2005)	(2006)	(2006)	(2007)	(2007)	(2008)	(2008)	(2008)	(2008)	(2008)
Min	855	3,469	4,416	2,690	2,122	1,933	2,337	4,371	4,746	2,987	1,478	1,148
(WY)	(2007)	(2008)	(2008)	(2008)	(2005)	(2006)	(2008)	(2007)	(2007)	(2006)	(2006)	(2006)

Water-Data Report 2008

12210700 NOOKSACK RIVER AT NORTH CEDARVILLE, WA—Continued

SUMMARY STATISTICS

	Calendar Y	ear 2007	Water Ye	ar 2008	Water Years 2005 - 2008		
Annual total	1,437,229		1,465,630				
Annual mean	3,938		4,004		3,906		
Highest annual mean					4,019	2007	
Lowest annual mean					3,693	2006	
Highest daily mean	25,600	Mar 12	23,700	Dec 4	36,800	Nov 6, 2006	
Lowest daily mean	812	Sep 24	1,000	Sep 29	522	Oct 10, 2006	
Annual seven-day minimum	865	Sep 20	1,170	Sep 24	557	Oct 7, 2006	
Annual runoff (ac-ft)	2,851,000	•	2,907,000	•	2,830,000		
Annual runoff (cfsm)	6.69)	6.80)	6.63	}	
Annual runoff (inches)	90.77	7	92.57	7	90.10)	
10 percent exceeds	6,270		8,100		7,390		
50 percent exceeds	3,500		2,860		3,100		
90 percent exceeds	1,450		1,810		1,340		



12210700 NOOKSACK RIVER AT NORTH CEDARVILLE, WA-Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May to September 2008.

INSTRUMENTATION.--Design Analysis H-377 temperature sensor interfaced with a Design Analysis H-500XL data logger which in turn is also interfaced with a Design Analysis H-222DASE (HDR) GOES radio for satellite telemetry. A 12 volt deep cycle battery with solar charging provides power.

REMARKS.--Temperature records good.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum recorded, 18.2°C, Aug. 14; minimum recorded, 5.9°C, June 10.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 18.2°C, Aug. 14; minimum recorded, 5.9°C, June 10.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
·		October			Novembe			Decembe		<u> </u>	January	
4												
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
2 <i>1</i> 28												
20 29												
30												
31												
/lonth												

Water-Data Report 2008

12210700 NOOKSACK RIVER AT NORTH CEDARVILLE, WA-Continued

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
рау	IVIAX			IVIAX		ivieaii	IVIAX		Wieaii	IVIAX		IVICALI
		February	Ī		March			April			May	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29										9.2	6.6	7.3
30										9.5	6.2	7.6
31										10.7	6.5	8.6
lonth												
IUIIIII												

Water-Data Report 2008

12210700 NOOKSACK RIVER AT NORTH CEDARVILLE, WA-Continued

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
Duy	William		moun	William		moun	Wild		moun			
	June			July				August			Septembe	er
1	9.3	7.0	7.7	13.7	8.8	11.2	13.7	10.0	11.6	12.6	9.1	10.7
2	8.0	6.4	7.0	13.5	8.8	11.2	13.9	10.5	11.9	12.5	9.2	10.8
3	7.7	6.7	7.2	12.0	9.2	9.9	16.1	10.0	12.7	14.0	9.6	11.6
4	8.2	6.4	7.2	11.6	8.6	10	17.2	11.3	14.0	14.6	10.3	12.2
5	7.4	6.6	7.0	10.7	8.8	9.7	17.6	11.6	14.5	12.6	10.7	11.4
6	8.5	6.2	7.3	11.2	8.8	10.0	17.2	12.1	14.6	14.3	10.6	12.1
7	8.3	6.8	7.4	14.2	8.4	11.0	17.4	12.4	14.8	15.2	10.6	12.7
8	9.2	6.5	7.7	15.0	9.6	12.2	16.8	12.2	14.5	14.6	10.5	12.5
9	8.3	7.1	7.6	15.3	10.2	12.6	14.8	12.1	13.1	14.9	10.7	12.6
10	7.8	5.9	6.9	13.0	9.9	11.4	14.0	11.1	12.2	14.6	9.9	12.1
11	8.0	6.9	7.4	14.7	8.7	11.5	16.4	10.5	13.1	15.0	10.2	12.4
12	10.6	6.9	8.5	15.8	10.0	12.7	15.8	11.4	13.6	14.9	10.6	12.6
13	11.6	8.1	9.6	16.0	10.5	13.2	17.8	12.4	14.8	14.6	10.2	12.3
14	10.7	7.1	8.8	15.1	10.3	12.7	18.2	12.4	15.1	14.8	10.0	12.3
15	11.8	7.6	9.8	15.7	10.0	12.7	17.2	12.8	15.0	15.2	10.4	12.7
16	12.8	7.6	10.1	16.1	10.4	13.1	17.8	12.5	15.0	15.1	10.5	12.7
17	10.8	7.8	9.0	15.8	10.6	13.2	15.6	12.6	14.2	13.8	10.5	12.2
18	10.4	7.6	8.9	15.0	10.7	12.7	14.3	12.4	13.2			
19	10.1	7.4	8.7	16.2	10.9	13.3	14.1	11.7	12.6			
20	11.9	7.9	9.8	16.6	10.9	13.6	12.9	11.5	12.1			
21	10.5	8.2	8.9	16.9	11.3	14.0	11.6	10.8	11.3			
22	11.6	7.7	9.3	15.4	11.6	13.4	14.1	9.9	11.7			
23	11.2	7.1	9.2	13.6	11.1	12.0	15.6	11.2	13.1	11.8	8.3	10.0
24	12.8	8.0	10.2	16.4	10.0	12.8	13.7	11.8	12.4			
25	12.6	8.0	10.2	16.4	11.4	13.8	14.2	11.0	12.4	10.9	9.8	10.3
26	11.4	8.6	9.9	14.8	11.5	13.3	13.9	10.8	12.1	12.7	9.7	11.0
27	14.0	7.9	10.6	13.5	11.8	12.5	12.1	10.6	11.3	13.6	10.5	11.8
28	14.4	9.0	11.6	15.5	10.0	12.6	11.8	10.6	11.1	13.1	9.4	11.3
29	14.0	8.7	11.3	13.7	11.3	12.0	12.5	11.0	11.6	13.3	8.9	11.3
30	13.9	8.9	11.3	12.9	10.2	11.4	12.4	9.9	11.0	12.9	9.5	11.3
31				11.6	9.5	10.6	12.9	9.3	10.8			
Vionth	14.4	5.9	8.9	16.9	8.4	12.1	18.2	9.3	12.9			